

IN THE CLAIMS:

Please amend original claims 1-10 and add new claim 11 as follows:

1. (Currently Amended) A Turbine turbine unit,—especially for a turbocharger comprising: a rotor housing (2) with at least one admission channel (9) for a fluid;

a turbine rotor (4) which is supported in a turbine space (23) of the rotor housing (2);

a nozzle ring (6) with a plurality of vane shafts (8) ~~which~~ are located on said nozzle ring (6) in ~~form~~ of a crown formation, and which comprises on one side vanes (7), which are susceptible to ~~be~~ being turned from a substantially tangential position into a substantially radial position (with respect to said crown), and at least one control element (19) in order to change the position of the vanes (7);

an actuation device (11) in order to create control movements which are ~~to be~~ transmitted to ~~the~~ a VTG mechanism (5-8) with variable geometry;

whereby the transmission of a control movement is effectuated by means of a control ring (5) which is positioned coaxially with said nozzle ring (6) and adjacent thereto, and which is movably connected with said at least one control element (19), as well as a guiding and centering device for the control ring (5), which comprises at least one roller bearing (3, 20, 21) having roller bodies (3) which substantially roll on a roller contact surface (20) of the control ring (5);

~~characterized in that~~ wherein said roller bearing (3, 20, 21) is arranged between the control ring (5) and a releasably connectable ring (6, 38) ~~which may be wherein said releasably connectable ring is~~ releasably connected with the rotor housing (2), ~~such as e.g. the nozzle ring (6) or a bearing ring (38),~~ so that control ring (5), roller bearing (3, 20, 21) and the ~~possibly~~ releasably connectable ring (6, 38) ~~may be~~ are installed in the rotor housing (2) as a modular unit (26).

2. (Currently Amended) The Turbine turbine unit according to claim 1, ~~characterized in that~~ compromising at least one of the following ~~characteristics is provided:~~

- a) the roller bearing (3, 20, 21) is ~~provided in form of~~ a cylinder bearing;
- b) the possibly releasably connectable ring is the nozzle ring (6),
- c) the unit (26a) further comprises a fastening ring (29) which is arranged opposite to the vanes (7) on the rotor housing (2) and fastened therewith, and which is also connected with the nozzle ring (6).

3. (Currently Amended) The Turbine turbine unit according to claim 1 ~~or 2~~, ~~characterized in that~~ wherein the roller bearing (3, 20, 21) is housed in an axially open free space (5'') of one of the rings, ~~preferably of the control ring (5) and that this~~ wherein the free space (5'') is closed by a ~~further~~ holding ring

(22), ~~especially through a ring (22) which holds~~ wherein said holding ring (22) comprises axial extensions (24) of rollers (3) of the roller bearing, ~~whereas wherein the rolls (3) may be are~~ held by ~~this~~ the holding ring (22) ~~in~~ at a certain distance from one another.

4. (Currently Amended) The Turbine turbine unit according to ~~anyone of the preceding claims, characterized in that claim 1,~~ wherein a plurality of control elements (19) are fastened on the vane shafts (8) on the side of the nozzle ring (6) ~~which that~~ is opposite to the vanes (7), and wherein said plurality of control elements (19) extend approximately radially and have wherein each plurality of control element (19) has a free end (18) each.

5. (Currently Amended) The Turbine turbine unit according to ~~anyone of the preceding claims, characterized in that claim 1,~~ wherein the a diameters diameter of the control ring (5) and a diameter of the releasably connectable ring (6) which cooperate with the roller bearing (3, 20, 21) are calculated ~~such that~~ they to allow a certain radial play p P of the roller bodies (3) at ~~essentially~~ all operation temperatures.

6. (Currently Amended) The Turbine turbine unit according to ~~anyone of the preceding claims, characterized in that claim 1,~~ wherein the modular unit (26, 26a), ~~which is comprised of the~~ control ring (5), the roller bearing (3, 20, 21) and the releasably connectable ring (6), is ~~are~~ held together in non-

rotatable fashion through inter-engaging projections and depressions (33), ~~and are preferably solicited into this position by means of a soliciting device.~~

7. (Currently Amended) The Turbine turbine unit according to anyone of the preceding claims, characterized in that claim 1, wherein between roller bearing (3, 20, 21) and a fluid leading space (9, 23) is arranged at least one ring shaped sealing (27, 28). at least one ring shaped sealing (27, 28), is arranged between the roller bearing (3, 20, 21) and a fluid leading space (9, 23).

8. (Currently Amended) The Turbine turbine unit according to anyone of the preceding claims, characterized in that claim 1, wherein the roller contact surface (21) of the releasably connectable ring (6, 38) has a smaller diameter as than the roller contact surface (20) of the control ring (5).

9. (Currently Amended) The VTG mechanism (5-8) of according to claim 1 comprising variable turbine geometry for a turbine unit according to anyone of the preceding claims, comprising a nozzle ring (6), wherein said nozzle ring (6) on which are provided comprises control shafts (8),

wherein each nozzle ring has a vane of variable orientation on one end having on one of their ends a vane (7) of variable orientation,

wherein said control shafts ~~having~~ have on their other end ~~ends~~ control elements (19) capable ~~to~~ of produce producing a modification of the orientation of the vanes (7), a control ring (5) capable of controlling the control elements (19) and a guiding and centering arrangement for the control ring (5) which comprises at least one roller bearing (3, 20, 21) including roller bodies (3) which roll on a roller contact surface (20) of control ring (5); ~~characterized in that~~ wherein said roller bearing (3, 20, 21) is arranged between said control ring (5) and ~~a~~ the ring (6, 38) which is releasably connectable within the housing (2), so that the control ring (5), the roller bearing (3, 20, 21) and the releasably connectable ring (6, 38) form one modular unit (26).

10. (Currently Amended) The VTG mechanism (5-8) according to claim 9, ~~characterized in that~~ comprising the mechanism it ~~comprises at least one of the following characteristics:~~

a) wherein the roller bearing (3, 20, 21) is ~~embodied in~~ form of a cylindrical bearing;

b) wherein the roller bearing (3', 20, 21) is ~~embodied as~~ a ball bearing;

c) wherein the roller bearing (3, 20, 21) is housed in an axially free space (5'') of ~~one of the rings, preferably of the~~ control ring (5) whereby said free space (5'') is closed by a ~~further ring, preferably by a~~ holding ring (22) which has axial

extensions (24) of the rollers (3) of roller bearing (3, 20, 21);

d) wherein the releasably connectable ring is the nozzle ring (6a);

e) wherein the diameters of the control ring (5) and of the releasably connectable ring (6, 38) which cooperate with the roller bearing (3, 20, 21) are calculated ~~such that they~~ to provide a radial play ~~(p)~~ (P) of the roller bodies (3) at ~~substantially~~ all operating temperatures;

f) wherein the modular unit (26, 26a) comprised of control ring (5), roller bearing (3, 20, 21) and releasably connectable ring (6, 38) is held in non-rotatable condition through inter-engaging projections and depressions (33), and is ~~preferably~~ solicited into this position by a soliciting device (32),

g) wherein between roller bearing (3, 20, 21) and a space (9, 23) which carries fluid, a ring shaped sealing (27, 28) is provided;

h) wherein the roller contact surface (21) of the releasably connectable ring (6, 38) comprises a smaller diameter ~~then~~ than the rolling contact surface (20) of control ring (5);

i) wherein the roller bearing is formed in a free space (5'') by a number of cylinders or balls which ~~substantially~~ fill said free space (5''); or

j) the roller bearing is formed ~~of~~ by at least three cylinders or balls ~~which~~ that are guided in free space (5'') by a freely rotatable holding ring (22).

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11. (New) The turbine unit according to claim 1, wherein the modular unit (26, 26a), the control ring (5), the roller bearing (3, 20, 21) and the releasably connectable ring (6) is held together in non-rotatable fashion through inter-engaging projections and depressions (33), and wherein the modular unit is solicited into this position by means of a soliciting device.